

#### The Harbinger

SPRING 2014 Vol. 31, No. 1

### Newsletter *of the*Illinois Native Plant Society

"...dedicated to the preservation, conservation, and study of native plants and vegetation in Illinois."



Only the hard core winter lovers are lamenting the end of this long, cold, and snowy winter season. Most are ready to see it end and get outside to start botanizing!

Warm days are in the forecast for the southern region and although the northern part of the state is still in a deep freeze, skunk cabbage has already been seen flowering, and perhaps the heavy snowpack will contribute to a lush growing season ahead. This is a photo of the waterfall at Rocky Bluff, in the Crab Orchard National Wildlife Refuge.

~Christopher David Benda, Editor

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#### Welcome New Illinois Native Plant Society Members!

Polly Danforth - Central Jennifer Williamson - Central Boehm's Garden Center - Central Valeria Sivicek - Forest Glen Greg Spyreas - Forest Glen Robert Stanton - Forest Glen Jake Hartter - Irene Cull

Sandy Babka - Northeast Catherine DeFotis - Northeast Erin Faulkner - Northeast Stephanie Frischie - Northeast Kenneth Johnson - Northeast John Legge - Northeast Christopher McElroy - Northeast Genevieve Nano - Northeast Andy Olnas - Northeast Kim Roman - Northeast Dale Shriver - Northeast Charles and Cathy Gibson - Quad Cities Jeff Nelson and Liz Neihoff - Southern Rene Potter - Southern





**GO GREEN!** If you are receiving a black and white newsletter by postal mail, please help us lower our costs by signing up for an electronic copy in color. Please send your email address to <u>illinoisplants@gmail.com</u> to be added to our email distribution list. Please "like" us on facebook at <a href="www.facebook.com/illinoisplants">www.facebook.com/illinoisplants</a>.

#### **Governing Board**

President:

Janine Catchpole

President-Elect:

Chris Benda

Past President:

Connie Cunningham

Secretary:

Rachel Goad

Treasurer:

Vicki Crosley

Erigenia Editor:

Andy West

Harbinger Editor:

Chris Benda

Membership:

Connie Cunningham

Webmaster:

Cassi Sarri

#### **At-Large Board**

Bohdan Dziadyk Tracy Evans

R.J. Fehl

Ron Kiser

Paul Marcum

Jason Zylka



We are currently accepting submissions for the next issue of Erigenia, the journal of the Illinois Native Plant Society. We are also asking for more reviewers. If you are interested, please email editor Andy West at erigenia.editor@gmail.com.

#### Message from the President

Well it has certainly been a long winter. I know spring comes sooner to members of the southern chapter, but for us in the northern part of the state, we wait. While we still expect night time lows below zero, hearing that the skunk cabbage is blooming in this area provides succor beyond the calendar moving to March.

In January, the Governing Board of the INPS held a retreat to discuss and examine what the INPS needs to accomplish over the next few years. We were assisted is this project by Dr. Brian Anderson, of the Illinois Natural History Survey (INHS), in our strategic planning.

The retreat was a success, and the board has a lot of work to do. Among our priorities is to reach out to our members and other groups concerned with the natural vegetation of Illinois. The creation of the listserv is one way we can quickly reach out to all members. Look for information about managing your subscription on page 4. Our facebook page (<a href="www.facebook.com/illinoisplants">www.facebook.com/illinoisplants</a>) adds another outreach platform, and our new webmaster, Cassi Saari, will be adding features to the web site.

We seek to grow our membership by getting more students and university faculty involved with INPS. Getting our research grant program rebuilt will help that process. Raquel Garcia, formerly with the Grand Victoria Foundation, has agreed to chair the grants committee. Please consider stepping up to be part of that effort.

INPS also seeks to be more active in providing non-partisan information to environmental organizations. In support of this, Floyd Catchpole has become the INPS representative to the Illinois Invasive Plant Species Council (IIPSC), where an effort is being made to update the listings of species under the Exotic Weed Act, Illinois Noxious Weed Law and Illinois Seed Law, and Jason Zylka has volunteered to be our delegate to the Illinois Environmental Council (IEC). Do you know of organizations that we should be involved in to further our mission? We welcome your input.

We simply need to communicate better with members, as well as reaching out to those in search of information about Illinois native plants. And that audience is growing. I have been attending conferences connected to the green industries, such as specialty crops, landscaping, and farmers markets. Their customers desire native plants, and growers want to learn more about them. We seek to work with these growers learn about the importance of using native plants with local provenance. We are trying to get native plant growers working together to build market share for local quality products.

So members, with your great knowledge base, we need to hear your ideas about making more information about native plants available to an interested and growing audience. With such a wide talent base among our members, almost anyone can create a project that can help INPS get the message out.

~INPS President Janine Catchpole

#### INPS CHAPTER NEWS

**NORTHEAST CHAPTER - Chicago** 

Diana Krug (President) 312-504-6473

northeast.inps@gmail.com

**QUAD CITIES CHAPTER - Rock Island** 

Bo Dziadyk (President)

309-794-3436

qc\_inps.home.mchsi.com

**IRENE CULL CHAPTER - Peoria** 

Mary Hartley (President)

309-995-3356

haywool@winco.net

**FOREST GLEN CHAPTER - Danville** 

Connie Cunningham (President)

217-516-1792

conniejcunningham@gmail.com

**CENTRAL CHAPTER - Springfield** 

Annette Chinuge (President)

217-483-5893

annette@avrosystems.com

**SOUTHERN CHAPTER - Carbondale** 

Chris Benda (President)

217-417-4145

southernillinoisplants@gmail.com



For more information about events, please contact your chapter representative above.

#### Northeast Chapter (Chicago)

The northeast chapter is busily planning a suite of field trips for the 2014 season, and the first will be held on April 26 at noon at Grainger Woods. Steward Kathy Garness will lead a tour of the early spring flora in these rich woods. Please RSVP to field trip coordinator Andy Olnas (andy.olnas@gmail.com) in advance. If the outing exceeds 15 people, they will split up and groups will visit one of the many other wooded Lake County Forest Preserves in the area. The northeast chapter will also be hosting the Annual Meeting this August, which features a focus on Kankakee Sands region. For more information, email <a href="mailto:northeast.inps@gmail.com">northeast.inps@gmail.com</a>, and find the northeast chapter on Facebook at: <a href="https://www.facebook.com/IllinoisNativePlantSocietyNortheastChapter">https://www.facebook.com/IllinoisNativePlantSocietyNortheastChapter</a>.

#### **Quad Cities Chapter (Rock Island)**

No current news to report.

#### Irene Cull Chapter (Peoria)

No current news to report.

#### Forest Glen Chapter (Danville)

Chapter President Connie Cunningham reports that plans are underway for a mushroom identification workshop, date and time to be announced. Please stay tuned for more programming in future newsletters, or contact Connie at her email listed above.

#### **Central Chapter (Springfield)**

Chapter President Annette Chinuge reports that although their January meeting was cancelled due to the horrendous weather, the February meeting made up for it all with a delightful presentation about bat conservation and wildlife problems by the very entertaining and enlightening Ron Scheller. The March 13th meeting continues with the notable Bill McClain presenting the flora of Scotland and Ireland. Please feel free to join us if you are in the Springfield area. April 26th is the Central Chapter's big Plant Sale! This year's sale will again be held from 9am to 2pm at the Illinois State Fairgrounds, Commodities Pavilion in Springfield. Further info and plant species lists will be on our INPS website sometime in March.

Additional news is that the central chapter voted to fund the cost of development of the INPS website to allow people to join or renew their membership on line. This process will be of benefit to both the State organization and the chapters as memberships are a key part of fund raising for the organization. Several field trips and excursions are in the plans in anticipation of warm days and spring weather. Please see the Central Chapter's section of our website for more information about their events at <a href="http://www.ill-inps.org/index.php/central-chapter">http://www.ill-inps.org/index.php/central-chapter</a>.

#### **Southern Chapter (Carbondale)**

Chapter President Chris Benda reports that the southern chapter hosted a couple of excellent programs so far this year. Southern Illinois University doctoral student Jason Willand presented titled "Ecological Restoration in the 21st Century" during their January meeting. Board members Chris Evans and Chris Benda presented a program about a "Guide to Spring Wildflower Hikes in Southern Illinois" at their February meeting and handed out the guidebooks. They are also available at state parks and visitor centers in southern Illinois. On March 21-23, they sponsor the second "Indigenous Plant Symposium" at John A. Logan College in Carbondale. Chris Evans will instruct a "Wildflower Photography for Beginners" course on April 25/26 and May 2/3. The course is full, but you can still signup on the waiting list by emailing <a href="mailto:southernillinoisplants@gmail.com">southernillinoisplants@gmail.com</a>. The southern chapter has much more programming scheduled for 2014, and you can follow them by getting on there mailing list by emailing <a href="mailto:southernillinoisplants@gmail.com">southernillinoisplants@gmail.com</a>. Follow them on Facebook at <a href="mailto:www.facebook.com/southernillinoisplants">www.facebook.com/southernillinoisplants</a>.

#### Other Illinois Native Plant Society News

The Illinois Native Plant Society has created a new listserve to aid in the communication of our chapters, members and others interested in our native vegetation and natural communities across the state. This is a medium open to INPS members and non-members that wish to share interests and activities related to the native flora of Illinois.

To post to this list, send your message to <u>illinoisplants@ill-inps.org</u>. General information about the mailing list is at <a href="http://ill-inps.org/mailman/listinfo/illinoisplants\_ill-inps.org">http://ill-inps.org/mailman/listinfo/illinoisplants\_ill-inps.org</a>.

If you ever want to unsubscribe or change your options (e.g, switch to or from digest mode, change your password, etc.), visit your subscription page. You can also make such adjustments via email by sending a message to <a href="mailto:illinoisplants-request@ill-inps.org">illinoisplants-request@ill-inps.org</a> with the word `help' in the subject or body (don't include the quotes), and you will get back a message with instructions.

Thank you for your support of the Illinois Native Plant Society!

\*You must know your password to change your options (including changing the password, itself) or to unsubscribe without confirmation. It was emailed to you on February 3, 2014.

#### Guide to area wildflower trails available

Springtime offers nature lovers an opportunity to view beautiful displays of wildflowers in Southern Illinois. These gems can literally carpet forest floors in color, bursting forth as the spring sun warms the soil.

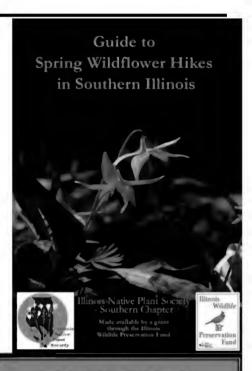
Through a grant from the Illinois Wildlife Preservation Fund, the Southern Chapter of the Illinois Native Plant Society has produced a guide to help people find the best locations to view spring wildflowers. This booklet highlights the seven best wildflower viewing hikes on public lands in Southern Illinois.

The guide, co-written by INPS Southern Chapter President Chris Benda and Vice President Chris Evans, includes a written description of each trail and a list of notable spring wildflowers found at each site, along with trail distances, difficulty ratings, directions and maps.

Read more at:

 $\frac{\text{http://www.dailyamericannews.com/article/20140120/News/140129831\#i}}{\text{xzz2usfNFHnm}}$ 





#### GRANT PROGRAM

Members are encouraged to promote the Chapter's grant program 8e on the lookout for potential Central Illinois applicants who are planning projects Grants of up to \$1000 each are available to support one-time projects by schools community groups garden dubs, non-profits, Scouts and others. Projects must focus on using native plants, and examples of eligible project include educating students bout native plants, removing mon-native plants to restore habitate, installing prairies, rain gardens, etc. For more information, contact Edie Sternberg, EdleStemberg@aol.com



# ILLINOIS INDIGENOUS PLANT SYMPOSIUM



# Celebrating Forests and Wetlands

PROGRAMS • EXHIBITS • LECTURES • VENDORS • GUIDED HIKES

# March 21-23

John A. Logan College
Center for Business and Industry

Registration fee is \$25
Registration required for all events
Register from Feb1 through Mar18 at
http://web.extension.illinois.edu/fjprw
or call 618.687.1727

Keynote Speaker: Dr. Michael Jeffords

University of Illinois Natural History Survey

Provincia y di Bross. • U.S. Deparament of Agon Libra • Local Estate son Countrib Cooperation Devenda, of Bross. Estato, provincia and equal occupational existing originance and employment. You need a resource accommodate on in path, pagin in this projuint.

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SIU Southern Illinois University





# - - Illinois Native Plant Society - -



linois State Fairgrounds ommodity Pavilion

(Across from Grandstand, Enter Gates 1, 7 or 1,1)

9am-2pm

801 E. Sangamon Avenue, Springfield, IL 62702

A diverse selection of native trees, shrubs, grasses, and perennials— many rare and of local provenance!

review the selection online!

More details can be found online or call 217-243-6055

- ill-inps.org/CentralPlantSale - -



### ILLINOIS NATIVE PLANT SOCIETY ANNUAL MEETING



#### KANKAKEE SANDS | AUGUST 1-3, 2014

This weekend event will be an in-depth look at the flora and natural history of the Kankakee Sands region.

**Friday:** INPS members can meet for a social hour to reconnect with old friends and make new ones before listening to an engaging speaker talk about the unique geologic history of the Kankakee Region.

**Saturday**: All day or half day field trips to a diverse selection of beautiful natural areas will be offered. After the field trips, we'll have feature a documentary about the region, a speaker, a banquet, silent auction, and a late night bonfire on the limestone banks of Rock Creek.

Sunday: A half day field trip to another of Kankakee's natural gems.





#### Welcome Rare Plant Enthusiasts! Please join us for one of our



#### **2014 Plants of Concern Training Workshops**

Saturday, April 5 Volo Bog Visitor Center

Volo Bog State Natural Area, Illinois DNR Ingleside (near Volo), Lake County, IL

Sunday, April 13 Sand Ridge Nature Center

**Forest Preserve District of Cook County** 

South Holland, Cook County, IL

Sunday, April 27 Brewster Creek Lodge

**Forest Preserve District of Kane County** 

St. Charles, Kane County, IL

Workshops are held from 9:30 a.m. to 3:00 p.m. This workshop will give you an opportunity to learn monitoring skills or to refresh your skills for the new season. New volunteers are required to attend one workshop. We ask any monitors who have never been to a workshop to attend.

**Registration is required.** A confirmation will be sent after registration and directions will follow shortly before workshop date. Visit *www.plantsofconcern.org* to register on-line **after February 1**, or please contact: Rachel Goad, Manager of POC: <a href="mailto:rgoad@chicagobotanic.org">rgoad@chicagobotanic.org</a>; (847-835-6927).

#### PICTURES FROM THE 2014 INPS BOARD RETREAT AT CAMP SHAW

The governing board of the Illinois Native Plant Society met for a retreat last January at Chaw Shaw in Manteno, IL (site of the upcoming annual meeting) in an effort to expand, enhance, and redefine the goals of the society. It was a very productive weekend, facilitated by Dr. Brian Anderson (top left), and proceeding to the right is Paul Marcum, Rachel Goad, Tracy Evans, Andy West, and Vicki Crosley. From the bottom left is Chris Benda, Connie Cunningham, Eric Ulaszek, Janine Catchpole, Annette Chunge, and Bohdan Dziadyk.





# ILLINOIS ENDANGERED SPECIES PROTECTION BOARD

## PROTECTION BOARD (BOARD) THE ILLINOIS ENDANGERED SPECIES

as a non-voting member. Illinois Department of Natural Resources (Department) governor-appointed members with the Director of the Protection Act (Act). The Board is composed of nine the passage of the Illinois Endangered Species The Board became established in 1973, one year after

# Mandates & responsibilities involving the Board:

- (1) The Board is required to maintain the Illinois List of Endangered and Threatened Species (List).
- (2) The Board is required to advise the Department on (E&T) species and related matters. the conservation of Endangered and Threatened
- (E) The Department is required to consult with and gain Species Possession Permits. changes to the Administrative Rules (Rules) for E&T written approval of the Board when making
- (5) 4 The Department is required to seek the advice of The Department is required to seek the advice of Endangered Species Conservation Program. the Board as it plans and implements it's
- of authorization for incidental taking of E&T Board comments regarding the issuance and terms the Board and provide written response to any

### A little history....

and delisted 160 species. The current List includes 484 and 2009). The Board has listed a total of 644 species have been 6 revisions (1984, 1989, 1994, 1999, 2004 was made available in 1981. Since the first List, there The first Board E&T status and distribution publication

TOTALS	Plants	Total Ansmalt	Other Inverts	Musels	Mammata	tirds	Regoles	Amphibians	Figh	
436	364	n	0	0	00	80	500	w	13	1981
445	354	81	-	9	100	8	-	3	12	1984
503	359	144	15	3 5	10	43	9	6	28	1989
511	363	148	24	25	9	42	13	5	8	1994
478	341	137	25	27	00	35	15	7	91	1999
483	PEE	¥	24	24	9	33	16	-	3.6	2004
483	332	151	8	M	9	B	u		31	2009
484	ΩE	12	8	25	9	30	10		21	1100

first List and each revision, 1981-2011, by taxonomic group. The number of endangered and threatened species for the



# Amphibians (1%) # Fresh (5%)

Board criteria for delisting species

A peripheral species that presently occurs only in

- Bards (8%) B Reptiles (3%)
- # Musuels (7%) B Other Invertebrates (5%) Mammals (2%)

All native populations are now considered to be

extirpated in Illinois.

breeding species in Illinois.

A species now considered to be only a vagrant disturbed/non-native habitats in Illinois.

Now known to be more common in Illinois than Illinois records for the species are now believed to

be based on mis-identified specimens.

previously thought.

since the first Illinois List, by taxonomic group. The proportion of the total 644 species that have been listed



- B Recovered (S) B Extripated/Extract (77)
- Misidentified (25) More Common Than Thought (41)
- Vagrant/Periphera//Occurs in Distb. Habitats (11) Comm. Regs Adequately
- Protect (1)

since the first revision of the List, by reason for delisting. The number of the total 160 species that have been delisted

## The review and revision process....

making changes to the Rules that make up the List. with the Illinois Administrative Procedures Act when evidence. Federally listed species are automatically and is required to base listing decision on scientific written approval from the Department in accordance List. The Board is required to consult with and gain hold a public hearing before finalizing changes to the added to the List, but the Board is otherwise required to The Board must review the List at least every S years

## Board criteria for listing species

- Species proposed as Federal E or T, that occur in Species included in the Federal list of E&T species
- Species formerly widespread, but that have been

hearing will also be posted to the website. preliminary List revision decisions, notice of a public the Board's website. Once the Board has completed its and how to participate in the review can be found on information to the Database, the List review process, information about how to submit E&T occurrence A current-year schedule of Board meetings and

- nearly extirpated from the State. Species which exhibit very restricted geographic
- populations in Illinois Species which exhibit restricted habitats or low ranges of which Illinois is a part.
- of the species' range. Species which are significant disjuncts in Illinois, i.e. the Illinois population is far removed from the rest

## ILLINOIS ENDANGERED SPECIES PROTECTION BOARD



## OTHER WORK BY THE BOARD

## Surveys and monitoring

Commission (Commission). including Department-administered programs for E&T also supports other protection provisions under the Act used by the Board during the review. The data then the Database and is the primary source of evidence surveys and monitoring activities. Data is submitted to Board, Department, and Illinois Nature Preserves possession permits, as well as recovery efforts by the species consultation, incidental take authorization, and The Board conducts and administers a variety of species

A species now considered to be recovered from

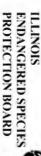
The species is now considered extinct

provide adequate protection for this species in Commercial fishing regulations by the Department

endangerment or the threat of endangerment in

to gather information that will contribute to listing planning. decisions or conservation and recovery strategies and The Board conducts and administers research projects

Board's website. species recovery information can be found on the on recovery planning and implementation. Board-The Board, Department, and Commission work together approved recovery planning documents and other



(3) Public comments are welcome at any Board

meeting open to the public.

address the Board as an agenda item at any Board recommendation for a change to the List, request to

hearing held prior to the Board finalizing changes to meeting open to the public and during the public (2) If you have compiled evidence and prepared a Submit E&T species reports to the Illinois Natural

Heritage Database (Database).

How to participate in the review process

complete the 2014 List review.

The Board is in the process of evaluating species to

The 2014 List review....



please visit the Board's website at For more information about the Board and its work http://www.dnr.state.il.us/espb/index.htm.

(ESPB 09/2014)

#### Plant of the issue - Skunk Cabbage (Symplocarpus foetidus)

The earliest spring wildflower to emerge from dormancy is skunk cabbage (Symplocarpus foetidus). In fact, this species flowers so early, it could be considered a winter wildflower! Skunk cabbage flowers have the ability to heat up the surrounding snow, which promotes melting so it can poke its fragrant flowers up through the ground.

Skunk cabbage has unusual flowers, like all members of the Arum family (Araceae). They consist of a spathe, an outer sheath which surrounds the inflorescence, and a spadix, a fleshy stem on which tiny flowers are produced.

Plants that produce flowers at the surface of the ground, instead of on a stalk (called a peduncle), share two important characteristics. They are brown in color and stink like decaying organic matter. This is to attract pollinators, typically flies, but lures in beetles and ants as well. Pollinators are also attracted to the flowers because of the heat they produce which leads to another interesting evolutionary strategy.

Why flower so early? On the one hand, there are not many pollinators available in the early spring because it is too cold for them to be active or present. However, the few insects that are active and present are looking for food and warmth. The skunk cabbage receives virtually exclusive attention because it flowers when nothing else is available.

"Symplocarpus" is Greek for "connected fruits" and "foetidus" translates from Latin to "malodorous" meaning "smelling very unpleasant." From this, the term "fetid" derives.



#### Pink praying mantis disguises itself as a flower

Native to the Malaysian rainforest, this orchid mantis does such a good job of mimicking local flora that it inspired Alfred Russell Wallace to propose that some animals mimic plants in order to lure in the pollinators they hope to eat. Watch the video here: http://boingboing.net/2013/12/10/pink-preyingmantis-disguises.html

#### Some plants may not adapt quickly to future climate change

Using the largest dated evolutionary tree of flowering plants ever assembled, a new study suggests how plants developed traits to withstand low temperatures, with implications that human-induced climate change may pose a bigger threat than initially thought to plants and global agriculture. Read article here: **Science** Daily

http://www.sciencedaily.com/releases/2013/12/131222160027.htm

Integrated Roadside Vegetation Management in Iowa - "It is declared to be in the general public welfare of lowa and a highway purpose for the vegetation of lowa's roadsides to be preserved, planted, and maintained to be safe, visually interesting, ecologically integrated, and useful for many purposes."







Featured Blog: Strategies for Stewards: from woods to prairies

Eco-restoration in tallgrass savanna, prairie, woods, and wetlands – inviting input from all – especially people participating in this newborn discipline of ecosystem healing. You can read the blog here. <a href="http://woodsandprairie.blogspot.com/">http://woodsandprairie.blogspot.com/</a>

#### Hydraulic Fracturing in Illinois

At two public hearings on proposed regulation, residents of Chicago and southern Illinois showed they stand united against fracking in the Land of Lincoln. The crowd in Chicago got rowdy when a Department of Natural Resources (DNR) hearing officer told a packed room they shouldn't speak out for a fracking ban because that "train has left the station." In southern Illinois, residents showed fierce determination to protect their communities and promised ongoing resistance. Read more at:

http://www.huffingtonpost.com/will-reynolds/illinois-united-against-f\_b\_4385804.html



A team of employees and other partners have been busy planning and preparing for the 50th Wilderness Anniversary Celebrations in southern Illinois. An attractive and informative webpage is now available on our public website, please visit the Wilderness Celebrations Page and pass it along to friends, family, and partners, etc. to help us spread the word.

http://www.fs.usda.gov/detail/shawnee/home/?cid=stelprd3791349 A lot of work went into making the programs and events possible, so help

support these efforts by joining in on the celebration and passing the info. along.



#### 2014 Conservation Awards Dinner

Recently, the 2014 Habitat Project Conservation Leadership Awards Dinner presented by Audubon Chicago Region was held at the Brookfield Zoo. Several INPS members were honored including Charlotte Adelman, Marianne Hahn, and Susanne Masi. Many others were presented an award as well. A great variety of groups and individuals are restoring the spirit and health of human ecological communities in Chicago Wilderness.









#### Cornstalks Everywhere But Nothing Else, Not Even A Bee

That cube was put there by David Liittschwager, a portrait photographer, who spent a few years traveling the world, dropping one-cubic-foot metal frames into gardens, streams, parks, forests, oceans, and then photographing whatever, or whoever came through. Beetles, crickets, fish, spiders, worms, birds — anything big enough to be seen by the naked eye he tried to capture and photograph. Here's what he found after 24 hours in his Cape Town cube: There were 30 different plants in that one square foot of grass, and roughly 70 different insects. And the coolest part, said a researcher to the Guardian in Britain, "If we picked the cube up and walked 10 feet, we could get as



much as 50 percent difference in plant species we encountered. If we moved it uphill, we might find none of the species." Populations changed drastically only a few feet away — and that's not counting the fungi, microbes, and the itsy-bitsies that Liittschwager and his team couldn't see. <a href="http://www.npr.org/blogs/krulwich/2012/11/29/166156242/cornstalks-everywhere-but-nothing-else-not-even-a-bee">http://www.npr.org/blogs/krulwich/2012/11/29/166156242/cornstalks-everywhere-but-nothing-else-not-even-a-bee</a>



#### An Old Tree Doesn't Get Taller, But Bulks Up Like A Bodybuilder

Like other animals and many living things, we humans grow when we're young and then stop growing once we mature. But trees, it turns out, are an exception to this general rule. In fact, scientists have discovered that trees grow faster the older they get. Once trees reach a certain height, they do stop getting taller. So many foresters figured that tree growth — and girth — also slowed with age.

"What we found was the exact opposite," says <u>Nate Stephenson</u>, a forest ecologist with the U.S. Geological Survey, based in California's Sequoia and Kings Canyon national parks. "Tree growth rate increases continuously as trees get bigger and bigger," Stephenson says.

http://www.npr.org/2014/01/16/262479807/old-trees-grow-faster-with-every-year

#### Trees are Tutors in SIU Forestry Class

SIU Southern Illinois University

Forestry students in a tree identification course have a surprising new tutor at Southern Illinois University Carbondale -- the trees

themselves. Jon Schoonover, associate professor of forestry, and a team of graduate students are putting QR codes on trees, and near shrubs and vines, in Thompson Woods and around Campus Lake. The QR codes, when scanned by a smartphone with a code scanning application, link to a dedicated website that tells the user about the tree, shrub or vine. The program is the only one like it in the state, and one of very few at colleges and universities nationwide.

"The website gives the common name of the tree, the Latin botanical name, and identifying information such as leaf shape, twigs and buds, bark, and fruit," Schoonover said. "It's important for students to get out and see the tree where it is, to touch the bark and smell and feel the tree. You can't get that from a website or a textbook." Read more at: http://news.siu.edu/2013/10/102913amh13081.html

#### **Invasive Species Corner**

Please look at the following resources for the latest in Invasive Species news.







Illinois Invasive Species Awareness Month is a statewide effort held each May to educate and inform citizens of Illinois about the threat of invasive species. The theme of 2014 Awareness Month is "Invasive Species Affect Everyone". If you live in Illinois, work in Illinois, recreate in Illinois, or simply breathe in



Illinois, invasive species affect you!

Local events, presentations, workdays, and field tours are needed across the state to help make Awareness Month a success. Please consider planning an Invasive Species Related event in 2014 in Illinois. Past ISAM events have included volunteer workdays, garlic mustard pulls, landowner field tours, interpretative hikes, presentations, discussion forums, kids programs, and informational displays. However, don't limit yourself - be creative and think of new types of events to host! For 2014 we are setting an ambitious goal of having over 100 events across the state as part of Awareness Month.

Invasive Species Awareness Month in Illinois is May, but if you have events in late April or early June, please send those in as well so that we can include them on our calendar of events (http://www.invasive.org/illinois/Calendar.html). Be sure to check out the ISAM website at http://www.invasive.org/illinois/ (It is being updated for 2014 right now!)

To have your events listed as part of Awareness Month and included on the ISAM calendar and website, please contact Chris Evans, ISAM coordinator at - Email:chris.evans@illinois.gov, Fax: 618-439-7376, or Mail: 11731 State Hwy 37, Benton, IL 62812

#### A Word About Nativars by Floyd Catchpole

What should the responsible homeowner plant in their garden? Certainly not known invasive species, but what about native cultivars (nativars) produced by hybridizing, genetically manipulating or selecting plants from native populations? The Wild Ones (<a href="http://www.wildones.org/">http://www.wildones.org/</a>) have declared that they can only recommend 'straight natives', defined as plants grown from wild, locally collected seed that is gathered in a manner to represent the natural population. The Wild Ones have decided that nativars are too different from straight native plants to meet their goal of preserving biodiversity through the preservation, restoration and establishment of native plant communities.

Why does it matter? Because the more native species you have in your yard, the more you contribute to reducing the massive wave of extinctions that is sweeping over Illinois. And, genetically diverse populations of local native plants resulting from millennia of natural selection are best adapted to your area, because they have coevolved with the local soils, climate and biota.

So where do nativars fit into this picture, and what are the differences within the nativar category? The different techniques and goals involved in producing nativars lead to differences in ecological functions, vigor, and the amount of genetic diversity between individuals of each nativar. Low genetic diversity in a population reduces the ability to respond to environmental changes and is thought to be a major cause of extinctions when

they only occur in tiny habitat remnants, as is so common in much of Illinois.

Open pollinated, ornamental nativars, such as *Rudbeckia fulgida var. sullivantii* Goldsturm is grown from plants found in a German garden from seed collected in the USA and delivered to the botanical garden of Graz University. While grown from seed, the original starts were collected with an eye to ornamental features, not to represent the full range of a wild population. So, even if you knew the provenance (wild origin of the seed) and lived nearby, three Goldsturm would be expected to have somewhat less genetic diversity than three straight natives.

Simple clonal nativar selections are plucked from the wild when someone notices an attractive plant and puts it into vegetative propagation. *Rudbeckia subtomentosa* 'Henry Eilers' is a quilled petal form, from a start Henry collected in a now-degraded wet prairie swale. The unusual flower shape and good garden habits has made it a popular nativar in the horticultural trade. Interestingly, this may be the last plant surviving from this population.

It has a full complement of the genetics of one plant (with an odd mutation) from Montgomery County, Illinois. However, clonal plants are virtually genetically identical and three Henry Eilers' planted in your garden will have the genetic diversity of one plant. Hybrid nativars are the result of crossing two native species. It is very important that both parents are native. If one parent is non-native, it has overseas genetics, and all the concerns associated with non-native plants that have evolved significantly different anti-herbivory mechanisms and associations with microorganisms and animals. Some hybrids are naturally occurring. A most spectacular, natural hybrid is the cross between Great Blue Lobelia (*Lobelia siphilitica*) and Cardinal Flower (*L. cardinalis*).

Provenance is often a problem with hybrids, for you may have parent material from geographically distant areas and suppliers often are unaware of the origin of each parent. Also, hybrid features may result in features that pollinators are not well adapted to.

Little direct genetic manipulation of native ornamental species has occurred to date. However, geneticists have begun adding genes to create new flower colors and alter characteristics of plants, such as resistance to disease and herbivory. These changes could have profound effects on the ability of genetically modified organisms (GMO's) to function normally in the environment and they could spread their novel genetic material to other plants of the same species. This raises the potential for GMO's to cause significant environmental impacts. The Wild Ones have decided that all non-native species and nativars are inappropriate in the landscape. These are complex issues and I encourage everyone to read the Wild Ones position paper on nativars (http://www.wildones.org/wp-content/uploads/2011/12/Nativars-Statement.pdf).

I feel that the use of straight natives from local ecotypes similar to the planting location is ecologically best. I agree with Doug Tallamy who says that, at best, non-native plants are like placing photosynthetic statues in your yard. At worst, non-natives are like cluster bombs, being scattered across the landscape and exploding into ecosystems, destroying habitat for hundreds of species. As for nativars, they range from ecologically risky, such as nativars that are planted far from their origin, genetically modified or hybridized, to functionally subpar, such as open pollinated and simple clonal selections.

Still, the decision whether to use them in your landscape is a personal decision. In a perfect world every natural division would have local nurseries, selling a broad selection of straight natives from local ecotypes. If we provide the demand, it will happen.

I hope this helps you make your plant buying decisions thoughtfully. I encourage you to seek out local nurseries that carry native plants and encourage others local nurseries to do so. And ask about the provenance of the plants. If it can't be provided, encourage the nursery to find out and make it part of their records.

Floyd Catchpole has an AD in horticulture form The Ohio State University, a BS in botany from Eastern Illinois University and a MS in Biology from Kansas State University. He worked for 10 years in the horticultural trade before changing careers. He now works as the Land Management Program Coordinator at the Forest Preserve District of Will County and is a member of the Illinois Native Plant Society.

The Illinois Invasive Species Awareness Month blog is continuing to host guest articles that tell the story of some of the great invasive species work underway in Illinois. Here is the latest guest article entry: <a href="http://illinoisisam.blogspot.com/2014/01/guest-article-southern-illinois.html">http://illinoisisam.blogspot.com/2014/01/guest-article-southern-illinois.html</a>

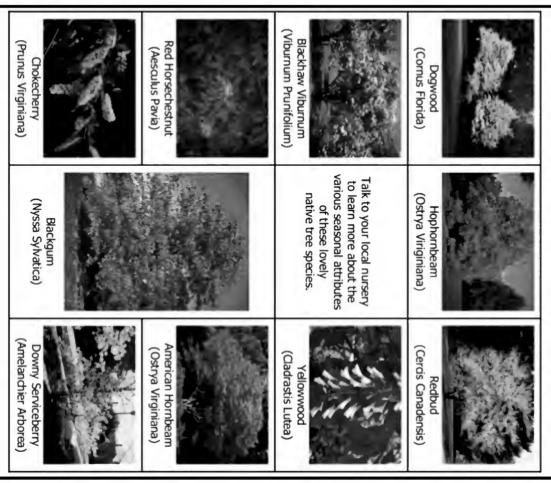
Written by Jennifer Behnken, Urban & Community Forester with the SIUC Community Forestry Outreach Program, this article describes the different aspects of that program, including the work they do with invasive species.

#### Plant This, Not That: New Jersey Natives Edition, Black Cherry, *Prunus serotina*, vs Bradford Pear BY PAT SUTTON



Black Cherry, *Prunus serotina*, is a widespread native tree found throughout the East, from Quebec south to Florida, west to North Dakota and Arizona.

Everything about Black Cherry ranks it as one of THE most important native trees for wildlife: (1) more birds feed on the fruits of this native tree than any other, (2) more butterflies and moths lay their eggs on this tree than any other tree, excepting the oaks, and (3) add to this mix its ornamental flower show in the spring. <a href="http://nativeplantwildlifegarden.com/black-cherry/">http://nativeplantwildlifegarden.com/black-cherry/</a>



The following examples of native trees make desirable alternatives to Callery pear cultivars. These species possess one or more of the following attributes: beautiful fall foliage, ornamental flowers and/or fruit.

Native Alternatives to Callery Pear Cultivars

#### Winter freeze aids forest preserves' fight against invasive species Frozen ground lets workers take heavy equipment to more remote areas

The bitter cold that has enveloped the Chicago area might not be everyone's favorite, but it's perfect weather for those who continue the fight against a host of invasive plants during the winter months.

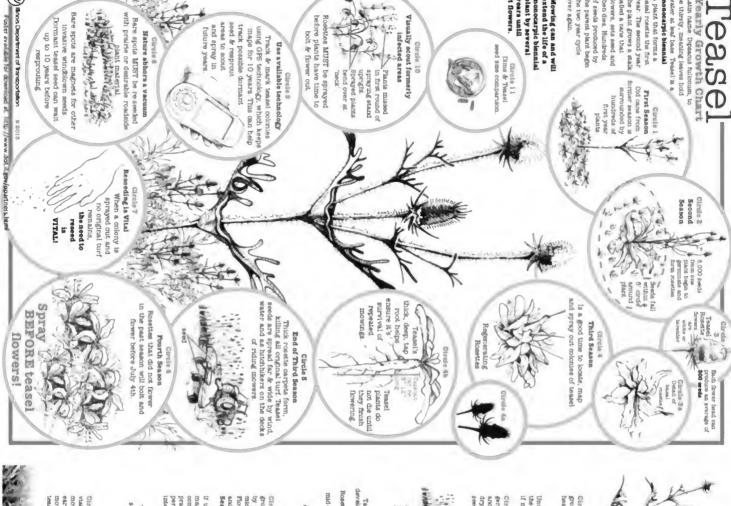
"This kind of freeze we're getting right now is what we dream about during the summer," said Chip O'Leary, the resource ecologist for the Cook County Forest Preserve District. "A lot of that work we do ... requires frozen conditions so we can get heavy equipment out without damaging the soil."

http://articles.chicagotribune.com/2013-12-26/news/ct-invasive-species-winter-met-20131226 1 invasive-species-invasive-plants-forest-preserves





<u>Beauty is the Beast</u> - Watch this four minute video about a true story of a small forest in upstate New York and how burning bush has escaped cultivation. https://www.youtube.com/watch?v=puJlpQHHCZA IDOT has recently produced an excellent poster on teasel control. Let's help them locate infestations by either approximate mile marker, estimating to the 1/10th mile or with GPS coordinates. Identify which highway and which side of the roadway and follow this link to send an email, http://www.dot.il.gov/Email/Email.asp?from=1 the plant grows a stalk called a care that flowers, sets seed and monocarpic biennial
a plant that forms a
hasal resette the first extend the life of a Minos Department of Transportation Visually scout formerly infected areas MUST be sprayed





growing season a single teasel plant can produce an average of 12 flot heads per plant. Each head can produce an average of 500 sexis. Circle 1: First Season of Full Growth During the first

der normalisch disturbance dircumstances, seeds will drop within 5 R. of parent plant. Fall mowing operations can spread seed over several miles decks are NOT cleaned off.

Cirriel 2: Recond Seanne 8,000 meds from each plant have the potential to germinate and form reverses. Sends will germinate in all types of turf mowed and or prairie. Resettes tolerate all soil types and conditions; waters edge, and or prairie Resettes tolerate all soil types and conditions; waters edge. Hot all seed (seminates the first year and our lay obspace; satay readicates, woodsand, we takend and prairie edges Hot all seed (seminates the first year and our lay obspace; for 10 years or 10 niger.



by forming rowste carpets. Plants send up a mainshoot, called a bolt, around mid-May Teasel flowers are polinated by bumble and common honeybees. Prowering begins just before the 4th of July in central illinois. Teasel bolts. and resettes are helpful to locate plants and colonies in tall grass

Optimum time to sprey tensed calculate in just before flowering. If unable to spray in time, selectively more out patch. Locate patch using GPS mapping, MARK ON MAFF Wast for plants to reboil, then spray Don't confuse compass plant or prairie dock boils for teasel boils. The cost to replace lost leason 3 is a good time to locate, map and apray out colonies of teasel antie plants due to leases displacements or inadvertents graving is 8.2 conta r square R. At an average of 3,000 prairie plants per acre, per 6 acre serchangs can equal \$18,000 (based on average 2012 IL DOT prices).

Moving will NOT control this plant
Towel on and will referred and set seed after moving. Teasel MUST be
sprayed or hand pulsed. If not treated, see plant producing an average of
5,000 seeds per season, can generate over 5,000 plants.
Mulliph such of those 5,000 plants by 6,000 seeds -

18,000,000 seeds by the second generation of teasel

Circle 8: Third Season Moved teasel will regrout and reforer producing viable seed. Teasel's think taproot ensures the plants survival of repeated movings. Teasel oblinies are easily identified by line green orbit and rebbit ear resettes. Moven teasel will regenerate in time to flower and set seed before moving out again in fail. All adjacent turf will be gone due to suppression by teasel positie orbits.

maps for future years to loca

Scout on foot, I.D., mark is on maps, quantify infested

Timeline Contro Tease!

Spray

Spray I Spray single plants and colonies in cane boll stage before

SDTAY 2 Spray colonies and single plants that re-grow after nowing. Spraying is ok until plant

Mow 1

DO NOT SPRAY AFTER PLAN-HAS STARTED TO FLOWER.

buying time to spray after re-growth

flattened by tractor tires. Canes will re-grow with new flower heads. Spray 3 Spray teasel rosette MOW 23 Mowing may need to be done 2x to cut down canes that we

Spray

troat causes damage to rosettes. During mild fall weather, spraying

with selective triclopyr,

thick 'carpet' of rosettes. This stage is an excellent time to spray selective herbicides. Little to none of the desirable turf will remain in the teasel carpet. falling off on steep hills, embankments and bridge patch Rosettes stay green after several hard freezes. Teasel seed heads that manage to reflower and set seed are spread far and wide by fall Seed can be spread several miles as Trasel seed rides on top of mower decks

not fully flower the previous year will green up and reflower around the fourth of July. A motiey ground cover of teasel carpst and bolting rosettes will form If left untreated Circle 6: Fourth Season Teasel resettes that did

Strete 7: Reseeding is vital When a colony is sprayed and no original bur remains, the need to reseed is vital. Map bare areas via GPS to monitor emounted page surround

Circle 8: Wature abhors a vaccum Bare spot dside plant material. Dormant teasel seed nams in soil and will re-sprout if not hindered reseeded with good prairie or desirable

Circle 9: Use a vailable technology Track & mark

areas Scout areas and track to spray resettes

#### ILLINOIS NATIVE PLANT SOCIETY Forest Glen Preserve 20301 E. 900 North Road Westville, IL 61883

illinoisplants@gmail.com

www.ill-inps.org



Dodecatl	heon frenchii –
French's	<b>Shooting Star</b>

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#### 2014 Spring Harbinger – March 2014

Please become a member and support this local non-profit organization dedicated to the preservation, conservation, and study of the native plants and vegetation of Illinois!!!

	Join us! New member Renewal Address Change only			Membership Categories Student\$13.00 Individual\$20.00 Family (new category)\$30.00 Institutional (nonvoting).\$20.00
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Illinois Native Plant	Phone Number		_	Patron\$55.00 Life\$300.00
Society		receive newsletters by postal m	nl.	Chapter Affiliation
PLEASE MAKE CHECKS	PAYABLE TO			Central (Springfield) Forest Glen (Westville)
ILLINOIS NATIVE PLANT	SOCIETY			Northeast (Chicago)
Forest Glen Preserve			ō	Southern (Carbondale)
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Email inps.membership@gmail.com or call Connie Cunningham at 217-516-1792